

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: :  
Yasuo Iwasa, et al. : Group Art Unit: 1794  
Appln. No.: 09/841,486 : Examiner: VO, HAI  
Filed: April 25, 2001 :  
For: POROUS RESIN FILM AND INK JET RECORDING MEDIUM

DECLARATION UNDER 37 C.F.R. §1.132

Assistant Commissioner for Patent  
Alexandria, VA 22313-1450

Sir:

I, Yasuo Iwasa, do declare and state as follows:

I graduated from Graduate School of Engineering, Faculty of Engineering, Department of Chemistry Engineering, Yamagata University in March of 1995.

I was employed by YUPO CORPORATION, Development Laboratory in April of 1995, and have been engaged in research and development on a synthetic paper YUPO and an in-mold label at the laboratory from 1995 to date.

I am a co-inventor of the invention described and claimed in the above-identified application.

## EXPERIMENTATION

### 1. Present Invention

Firstly, the EXAMPLES 1 to 7 and the Comparative Examples 1 to 3 of the present specification and the results thereof are set forth in the following Table.

### 2. WO 0022033 (WO'033)

The Example 1 of WO'033 was replicated in the same manner as described in WO'033 as set forth in the following Table. The properties as set forth in the following Table were evaluated in the same manner as the present specification.

These results are set forth in the following Table.

Comparison between the Present Invention and WO 00/22033

Present Invention (09/841,486)												Cited Reference WO00/22033
		EX.1	Comp. Ex.1	Comp. Ex.2	Ex.2	Ex.3	Ex.4	Ex.5	Ex.6	Comp. Ex.3	Ex.7	Ex.1
Hydrophilic Thermoplastic Resin:	PEPO1 (wt%)	12	-	30	12	12	12	12	40	12	10	12
	polypropylene having a MFR of 5g/10min (wt%)	30	40	70	30	30	30	30	60	30	40	-
	polypropylene having a MFR of 1g/10min (wt%)	-	-	-	-	-	-	-	-	-	-	38
Non-hydrophilic Thermoplastic Resin:	calcium carbonate having an average particle size of 3um (wt%)	58	60	-	58	58	58	58	-	58	50	-
	calcium carbonate having an average grain size of 1um (wt%)	-	-	-	-	-	-	-	-	-	-	50
Fine Powder:	Type of Twin-screw extruder (biaxial kneader)	TEX65	TEX65	TEX65	TEX65	TEX65	TEX65	TEX30	TEX47	TEX30	TEX65	TEX65
	Screw clearance (mm)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.4	0.4	0.4
Kneading Step:	Screw shear rate (1/sec)	3,000	3,000	3,000	8,500	5,000	800	400	18,500	100	2,200	100
	Liquid Absorbing Capacity at 2 second (ml/m <sup>3</sup> )	7.3	0	0	8.0	7.6	6.5	5.8	5.6	2.2	7.2	1.5
Results:	Number of Surface Pores (1m <sup>3</sup> )	1.0E+09	2.2E+10	0	1.0E+09	1.0E+09	1.0E+09	1.0E+09	9.2E+08	7.6E+08	7.6E+09	2.0E+08

As seen from the results of Table above, WO'033 does not satisfy the property: the liquid absorbing capacity in the present invention. Thus, WO'033 cannot exhibit the effect of the invention.

I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Respectively submitted,

Date: April 12, 2010

Yasuo Iwasa  
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